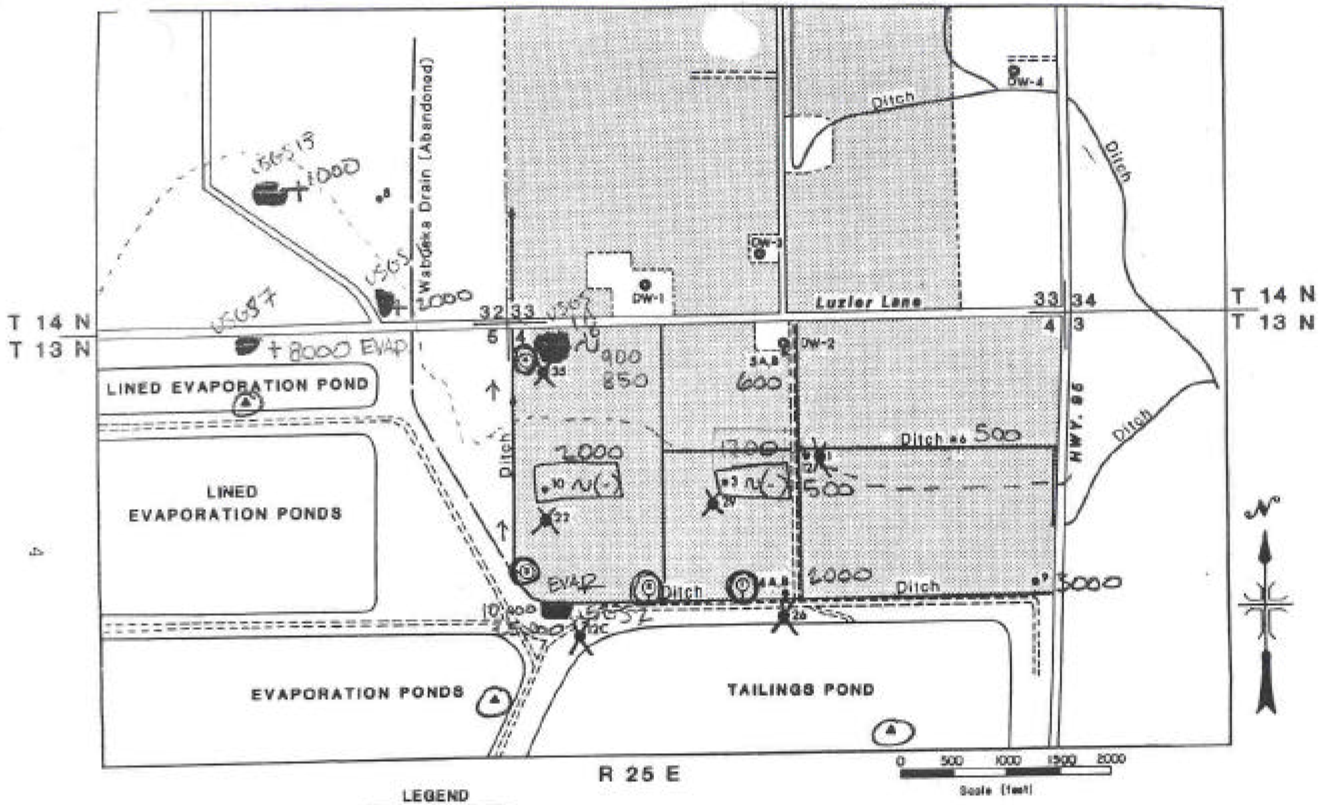
A-2
AHA (1983)



LEGEND

- EXISTING U.S.G.S. WELL (with well no.)
- NON-EXISTING U.S.G.S. WELL (with well no.)
- DW-1 DOMESTIC WELL (with well id. no.)
- DRAINAGE DITCH SAMPLING POINT (with id. no.)
- SOIL SAMPLING SITE
- IRRIGATED AREA
- DEEP WELL (with well no.)

APPLIED HYDROLOGY ASSOCIATES

ANACONDA MINERALS CO.
YERINGTON PROJECT

Figure 3

STUDY AREA

TABLE 5

Water Quality Analyses of Solids Leaching Tests

Sample Location	Drain #1				Drain #2				Drain #3			
	surface		deep		surface		deep		surface		deep	
Sample Date	03/30/83		03/30/83		03/30/83		03/30/83		03/30/83		03/30/83	
	EP tox.	Shake	EP tox.	Shake	EP tox.	Shake	EP tox.	Shake	EP tox.	Shake	EP tox.	Shake
pH (pH units)	--	7.4	--	7.6	--	7.7	--	3.7	--	3.1	--	4.2
Ca	--	16	--	39	--	224	--	127	--	198	--	71
Mg	--	4.6	--	3.3	--	16	--	8.3	--	103	--	23
Na	--	12	--	28	--	25	--	33	--	105	--	61
K	--	0.6	--	1.1	--	2.8	--	2.1	--	6.8	--	2.2
HCO3	--	35	--	46	--	115	--	0	--	0	--	0
CO3	--	0	--	0	--	0	--	0	--	0	--	0
SO4	--	83	--	130	--	440	--	296	--	2050	--	278
Cl	--	2.9	--	7.8	--	3.9	--	3.9	--	10	--	3.9
F	--	1.2	--	1.4	--	5.8	--	1.0	--	36	--	2.0
NO3	--	0.1	--	<0.1	--	0.1	--	<0.1	--	1.3	--	0.2
As	0.004	0.025	<0.002	0.001	0.002	0.008	<0.002	0.003	<0.002	0.004	0.004	0.0005
B	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--	<0.1	--	<0.1
Cd	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Cr	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Cu	--	<0.1	--	<0.1	--	<0.1	--	0.1	--	1.0	--	0.2
Fe	--	0.4	--	<0.1	--	0.2	--	1.5	--	36	--	16
Hg	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002
Mn	--	0.6	--	0.7	--	3.4	--	2.5	--	13	--	4.8
Pb	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Zn	--	<0.1	--	<0.1	--	0.3	--	0.4	--	0.8	--	0.4
C-A balance	--	17.2	--	4.0	--	-0.8	--	-14.9	--	13.2	--	-17.6

Note: All units are in mg/l unless noted otherwise.

TABLE 5 (Cont'd)

Water Quality Analyses of Solids Leaching Tests

Sample Location	Tailings Pond		Evaporation Pond A		Evaporation Pond B		USGS* Site T	USGS* Site S	USGS* Site E
Sample Date	03/30/83		03/30/83		03/30/83		12/14/76	12/08/76	12/08/76
	EP tox.	Shake	EP tox.	Shake	EP tox.	Shake			
pH (pH units)	--	7.2	--	2.7	--	2.3	11.4	4.2	1.8
Ca	--	536	--	326	--	7.7	210	240	700
Mg	--	2.9	--	247	--	730	2.2	13	4700
Na	--	69	--	353	--	266	110	110	2700
K	--	31	--	0.1	--	0.04	27	24	1.6
HCO3	--	27	--	0	--	0	0	0	0
CO3	--	0	--	0	--	0	21	0	0
SO4	--	1522	--	2315	--	17593	580	860	47000
Cl	--	50	--	116	--	*	86	78	1000
F	--	1.0	--	4.3	--	0.16	1.8	2.5	470
NO3	--	0.2	--	6.2	--	3.5	--	--	--
As	<0.002	0.004	0.006	0.013	<0.002	0.008	0.001	0.002	42
B	--	<0.1	--	0.3	--	0.6	0.33	0.28	11
Cd	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0	0	0.6
Cr	<0.05	<0.05	<0.05	0.1	0.15	0.9	0	0	9.0
Cu	--	<0.1	--	43	--	67	0.006	70	330
Fe	--	<0.1	--	50	--	2008	0.05	0.1	30000
Hg	<.0002	<.0002	<.0002	<.0002	<.0002	<.0002	0.0037	0.0052	0.0012
Mn	--	0.2	--	32	--	52	0.01	0.18	420
Pb	<0.1	<0.1	<0.1	<0.1	<0.1	1.0	0	0	3.0
Zn	--	<0.1	--	5.3	--	11	0.01	0.46	56
C-A balance	--	4.4	--	-1.3	--	--	-2.7	4.6	-22.0

* Waste fluid samples
Note: All units in mg/l unless noted otherwise.